

Sound Calibrator, dual-level, Class 1

HD2020



Introduction

The HD2020 Sound Calibrator is a portable, battery-operated sound source for calibration and check of microphones and sound level meters. It is designed for field use and laboratories and conforms to the requirements in IEC 60942 for a class 1 sound calibrator.

Emission signal is 1 kHz at 94 dB or 114 dB. Setting is easy thanks to the keyboard and LCD display.

The signal is generated by a piezoceramic source inside the acoustic coupler. An internal sensor measures the level in the coupler and a feedback circuit accurately adjusts the level so that the calibration level is virtually independent of ambient conditions like atmospheric pressure, temperature and humidity within the specified range of operation.

The calibrator allows adjustment of 1/2" and 1/4" (with adapter).

HD2020 is powered from one 9V alkaline battery (6LR61). If the voltage supplied by the batteries is too low to ensure proper operation, the calibrator will automatically switch off or not switch on.



Field-use

Use it in the lab or field, with 94.0 dB and 114.0 dB levels allows check of both high and low sensitivity microphones



Class 1 precision

Complies with IEC 60942-2003 Class 1 and ANSI S1.40-1984.



No pressure setting

Level is automatically adjusted and independent by atmospheric pressure over a wide range.



Clear LCD guidance

LCD shows pressure level, battery status, date, time and expiry alerts.



High-noise use

114 dB level supports calibration in high background noise environments.



View product on our website

prod.senseca.apprunner.info/en/product/hd2020-hd2020

Features

Selectable sound levels

The keypad selects 94.0 dB or 114.0 dB sound pressure levels for calibration at a fixed 1000 Hz frequency.

Microphone coupling

The coupling cavity accepts standard 1/2" microphones according to IEC 61094-1 and IEC 61094-4.

Display and menu

The LCD and four-key keypad provide access to date, time and calibration validity settings.

Automatic power off

The instrument switches off automatically after about 5 minutes with the microphone inserted, or after 30 seconds with the cavity open.

Battery monitoring

The 9V battery status is continuously monitored and shown on the display with a battery symbol.

Internal control

The electro-acoustic system uses a piezoceramic generator, feedback sensor and automatic gain control.